Maharashtra State Board
Class VI Science
Sample Paper – 3

Time: 2 hrs **Total Marks: 60**

General Instructions:
1. All questions are compulsory.
2. The marks related to the question are given in brackets.

I. Choose the correct alternative: [15]

1. The process of passing out waste substances from the body is called
(a) Locomotion
(b) Respiration
(c) Excretion
(d) Reproduction

2. A ball thrown high up in the air comes down because of
(a) Gravitational force
(b) Magnetic force
(c) Frictional force
(d) Mechanical force

3. Which of the following factors are necessary for the existence of life on the Earth?
(a) Atmosphere
(b) Lithosphere
(c) Hydrosphere
(d) All of the above

4. The part of the stem between two nodes is called
(a) Axil
(b) Internode
(c) Petiole
(d) None of the above

5. Which of the following units are used to measure time?
(a) Seconds
(b) Days
(c) Years
(d) All of the above

6. Which of the following is a conventional source of energy?
(a) Energy from petrol
(b) Energy from the Sun
(c) Energy from coal
(d) Both a and c

7. Which of the following correctly represents the path of food in the human digestive system?
(a) Mouth → Stomach → Large intestine → Small intestine
(b) Mouth → Large intestine → Stomach → Small intestine
(c) Mouth → Stomach → Small intestine → Large intestine
(d) Stomach → Mouth → Large intestine → Small intestine

8. Which of the following correctly represents a food chain?
(a) Grasshopper → Grass → Snake → Frog → Eagle
(b) Grass → Grasshopper → Frog → Snake → Eagle
(c) Eagle → Snake → Grasshopper → Grass
(d) Frog → Eagle → Grasshopper → Grass

9. The CGS unit used to measure distance is
(a) gm
(b) sec
(c) cm
(d) kg

10. Plants which are 1 to 1 ½ metres tall are called
(a) Shrubs
(b) Herbs
(c) Creepers
(d) Climbers

11. Blood can be separated into its components by the process of
(a) Centrifugation
(b) Filtration
(c) Settling
(d) Churning

12. Which energy change takes place during the bursting of crackers?
(a) Potential energy → Kinetic energy
(b) Chemical energy → Heat energy + Sound energy + Light energy
(c) Chemical energy → Kinetic energy
(d) Potential energy → Chemical energy

13. Which of the following practices will help to maintain good social health?
(a) Public places should be kept clean.
(b) Garbage should be disposed of in dustbins.
(c) Resources should be used economically.
(d) All of the above.

14. The plucked strings of a guitar possess
(a) Oscillatory motion
(b) Random motion
(c) Linear motion
(d) Rotational motion

15. Maglev trains are based on the principle of
(a) Magnetic attraction
(b) Magnetic repulsion
(c) Electromagnetic induction
(d) Periodic motion

II. Answer the following: [10]

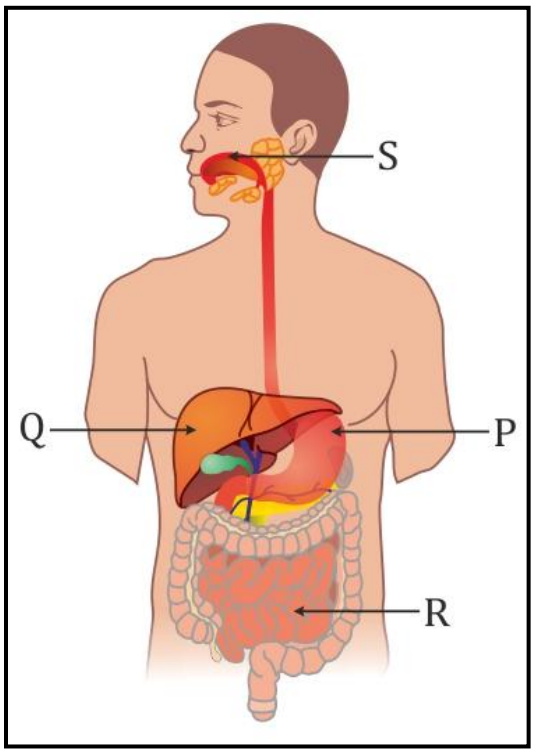
16. Why should waste water from factories not be allowed to mix with drinking water?
17. Why is it necessary to use fossil fuels sparingly and economically?
18. Name the force applied in each of the following actions:
(a) Applying brakes on a bicycle
(b) A crane lifting a heavy iron load
19. Find the odd one out:
(a) Diaphragm, Pancreas, Alveoli, Trachea
(b) Bile juice, Pancreatic juice, Intestinal juice, Saliva
20. Define:
(a) Volume
(b) Displacement

III. Answer the following: [15]

21. State the differences between flowering and non-flowering plants.
22. What are the advantages of using a machine?
23. Why is the atmosphere called the Earth's protective shell?
24. Which method will you use to separate the substances in each of the following mixtures?
(a) Sand + Sal ammoniac
(b) Water + Alum
(c) Water + Soil
25. Why is the cultivation of karanja and jatropha being encouraged?

IV. Answer in brief: **[20]**

26. Add the missing labels in the given diagram of the human digestive system.



27. What should we do to take care of machines?

28. What are the different ways of classifying animals?

29. What care will you take with respect to weights and measures while buying vegetables in the market?

30. State the functions of each of the following:

(a) Veins

(b) Root cap

(c) Seed coat

(d) Cotyledons